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Dated: \_\_\_\_\_

Docket No.: 09626/000L207-US0  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Tetsuya ATSUMI, et al.

Application No.: 09/193,928

Art Unit: 3711

Filed: November 17, 1998

Examiner: S. L. BLAU

For: LIGHT-WEIGHT SHAFT FOR GOLF CLUBS

**DECLARATION BY INVENTOR TETSUYA ATSUMI UNDER 37 C.F.R. 1.132**

MS Appeal Brief - Patents  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**RECEIVED**

JUL 15 2004

TECHNOLOGY CENTER R3700

I, Tetsuya Atsumi, hereby declare:

1. I am a citizen of Japan and I am over 21 years of age.
2. I am a named joint inventor of the above-captioned patent application and submit this declaration in support of the patentability of pending claims 1, 21, and 22.
3. I tested golf club shafts having, in sequential order, an inner layer being a first angled layer concentric with a longitudinal axis of the shaft, the first angular layer having a circular cross section; a first straight layer formed on the first angled layer, the first straight layer being concentric with the longitudinal axis and having a circular cross section; a second angled layer formed on the first straight layer, the second angled layer being concentric with the longitudinal axis and having a circular cross section; a second straight layer formed on the



Application No.: 09/193,928

3

Docket No.: 09626/000L207-US0

6. I further declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true. I further declare that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States code, and that such willful false statements may jeopardize the validity of the instant application or of any patent issued thereupon.

Respectfully submitted,

Dated: Jun. 10. 2004

Tetsuya Atsumi  
Tetsuya Atsumi

Shaft Weight (g)	Stack Angle for Second Angled Layer	Torsion Angle lb - ft  °)	Crushing Strength [kgf/10 mm]				Torsion Strength [kgf.cm.]	Three Point Bending [kgf]		
			a Butt to 10 mm	b Butt to 100 mm	c Butt to 200 mm	d Butt to 300 mm		A Tip to 175 mm	B Tip to 525 mm	C Butt to 175 mm
A	±20°	5.5	5.8	6.0	5.6	6.1	156.9	62.7	40.7	39.3
B	±45°	5.2	8.5	8.4	8.5	7.8	147.5	60.7	48.3	43.3
C	±60°	5.4	8.8	9.2	9.5	9.6	179.3	62.3	49.7	46.3
D	±70°	5.5	11.7	11.4	11.8	10.6	171.4	60.7	51.7	51.7
E	±75°	5.7	12.2	10.9	10.3	12.1	156.6	64.7	52.3	50.3
F	±80°	5.8	10.6	11.6	11.4	11.8	159.4	62.3	51.3	54.0